

Faculty of Education

Lesson Plan Template

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| **Subject / Course:** Mathematics | **TC Name:** Samina Salman |
| **Grade Level:** 8 | **Date:** Oct 26,2010 |
| **Topic:** Collecting, Organizing and Displaying Data | **Time of Class:** 50 min |
| **AT Name:** Ann Mackenzie | **Room # / Location:** Portable 13 |
| **1. Instructional Expectations and Opportunities** |  |
| 1. **Expectations**: (*list. 1-3 specific expectations from the Ontario curriculum} Be realistic about how much you can accomplish in one lesson.*  |  | | --- | | * identify and describe trends, based on the rate of change of data from tables and graphs, using informal language * make inferences and convincing arguments that are based on the analysis of   charts, tables, and graphs | | |
| 1. **Goal(s) for the lesson:** *(What do you want the students to have learned by the end of the lesson? How will you know they have learned?)*  |  | | --- | | * Students will be able to analyze different types of graphs * Students will be able to make reasonable conclusions based on their analysis | | |
| **2. Preassessment and Accommodations/Modifications** | |
| |  |  | | --- | --- | | **Preassessment:** | **Accommodation/Modification:** | | **Academic Needs:**  **Behavioural/Social/Emotional Needs:**  **Physical Needs:**  **Diversity Needs:** | * Minds on activity to review the concepts * Provide extra set of data to early finishers * Provide fewer questions to students who have difficulty completing their work * Allow students to work in pairs * Selection of appropriate data to analyze | | |

**3. Learning Environment**

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| * LCD projector and laptop on the teacher’s table and white screen pulled down for Power point presentation * Tables will be set in pairs for think, pair and share activity later on * Hand outs and other required materials are at the teacher’s table on the left hand side * During group activities and seat work the teacher will circulate throughout the classroom. |

**4. The Overview (Agenda) for your lesson:**

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| * Minds-on- Power point Jeopardy game * Teacher demonstration * Think, pair and share * Class Discussion * Consolidation- ticket out the door |

**5. Resources and Materials for your class**

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| * Teacher’s laptop * LCD projector and white screen * Extra pencils for students who don’t have their own * 25 copies of graph worksheet, (copy attached) |

**6. Content, Teaching Strategies, for Lesson**

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| ***Time*** | ***Teaching or***  ***Assessment Strategy*** | ***Detailed Description*** |
| *3min*  *15 min* | *Introduction* | 1. **(before class) Preparation**  * Teacher connects laptop to the projector and pulls the white screen down * Teacher will have the power point presentation ready to display  1. **Transition**  * Teacher will get the class attention (1,2,3 all eyes on me) * Teacher will ask the students to clear their desks in 40 sec * Teacher will review the agenda for the lesson * Teacher will review the rules to play Jeopardy  1. **Minds On**  * Teacher will play the Jeopardy game show music * Teacher will then start the Jeopardy power point game * Teacher will ask each student a question from the Jeopardy Board * Students will have the right to pass, in that case the question can be taken up by a volunteer * Students will in this way review their previous knowledge about graphs |
| *10 min*  *2 min* | *Instruction*  *Direct instruction* | 1. **Direct instruction**  * Teacher will show some graphs through laptop computer on the white screen and discuss ways to interpret data   Anticipating Questions   * Why do we use graph? * What type of graph do you see? * How do you compare the data? * What information does it provide?   Anticipated Answers   * Makes it easier to organize data * It is easy to interpret information * It is visually appealing * A double bar graph * A double line graph * By comparing them using the scales provided  1. **Transition**  * The teacher will ask students with their shoulder partners for this activity * Teacher will then distribute two different work sheets to the pair for the think pair and share activity |
| *20 min* | *Application*  *Cooperative learning*  *Assesssment* | 1. **Think -Pair –share**  * In this activity, students will be required to apply what they’ve learned from the graphing unit and the teacher demonstration * Students will be required to look at their work sheets, think about the answers to the questions provided and write them down on the space provided on the work sheet * Students will then swap sheets with their shoulder partner and repeat the procedure with the other sheet * Students will share their findings with their partners   Assessment opportunity: the teacher will circulate and assess   * Students knowledge of analyzing graphs * Students cooperation and communication skills |
| *2min* | *Consolidation* | 1. **Ticket out the door (Class Discussion}**  * Teacher will ask each student to share one interesting fact they have interpreted from the graph with the whole class * Students will hand in their sheet while exiting the classroom |